

Technical Data Sheet

29 July 2007

ISOPHTHALIC UNSATURATED POLYESTER RESIN

KUPOL LR 7535

Kupol LR 7535 is a versatile, pre-accelerated, thixotropic unsaturated polyester resin based on isophthalic acid and designed for use in applications requiring a high degree of mechanical properties combined with good chemical resistance and durability.

Characteristics of the resin as supplied:

Physical Characteristics

Parameter	Units	Limits	Parameter	Units	Limits
Non-Volatile Content	%	56 ± 4	Reactive Diluent *	Nil	Styrene
Viscosity (25°C) @ 5 RPM	cPs	450 - 875	Colour	Nil	Pinkish
Viscosity (25°C) @ 50 RPM	cPs	300 - 350	Acid Value (as supplied)	mg KOH/g	25 max.
Thixotropic Index	Nil	1.5 - 2.5	Density *	Nil	± 1.12

Curing Characteristics

Parameter	Units	Limits	
Gel Time @ 25°C	Minutes	15 - 20	Curing parameters are determined on a 100 gram sample stabilised at 25°C and catalysed with 2% Methyl Ethyl Ketone Peroxide (50%).
Cure Time	Minutes	20 - 40	
Peak Exotherm	°C	± 190	

Properties marked with an * are provided for information purpose only and do not form part of the product specification.

Application Methods

Kupol LR 7535 has been specifically designed for use in hand lay-up contact moulding applications.

Areas of Use

Kupol LR 7535 may be used in any GRP application where its' combination of chemical resistance, excellent resilience and impact strength, are of benefit. Such usage encompasses, but is not limited to, pipes, ducts, automotive and marine products.

Curing

Kupol LR 7535 is pre-accelerated and requires only the addition of MEKP to affect curing. Although the product will cure with only 0.5% addition of peroxide, a level of between 1 and 2 % is recommended to achieve optimal mechanical properties.

Post Curing

Kupol LR7535 products should be post cured where optimal mechanical properties are required and/or the product comes into contact with potable water or foodstuffs.

Packaging

Kupol LR 7535 is available in 225Kg net mild steel tight head drums. For alternative packaging requirements please contact our Sales Department.

Storage Stability and Safety

Kupol LR 7535 is stable for a period of 6 months when stored in its original container out of direct sunlight at temperatures not exceeding 25°C. This product contains styrene monomer and requires special care in handling. Please refer to the MSDS and any local statutory requirements

No warranty or guarantee, express or implied, is made regarding the performance or stability of any product since the manner of use and/or conditions of storage are beyond our control.

KCMC are committed to improving all aspects of our product range through continued research and development. As such product composition and/or specifications may change without notice.